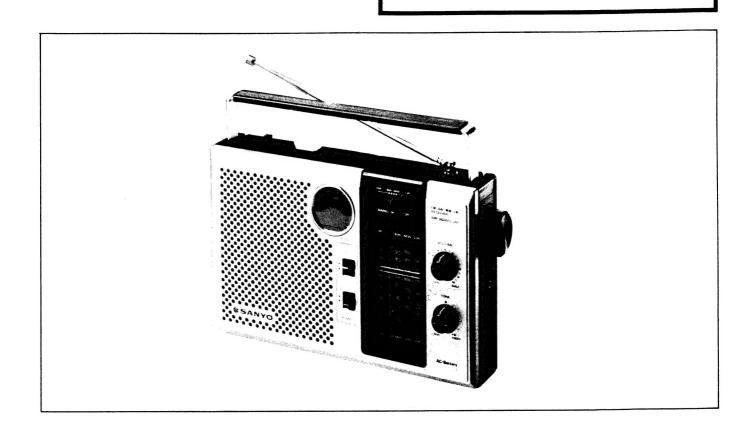
SERVICE MANUAL

PORTABLE RADIO



RP 8260UM



SPECIFICATIONS

Diode:

150 - 285 kHz Frequency ranges: LW

525 - 1605 kHz MW

SW 5.95 - 18.0 MHz

FM 87.5 - 108 MHz

LW/MW/SW 470 kHz

FM 10.7 MHz

LW 400μV/m

(for 50mW output) MW $100\mu V/m$

Intermediate:

Sensitivity:

 $25\mu V/m$ SW

FM $3\mu V$ Output power:

Power source:

Maximam

1300 mW

Undistorted

800 mW

Transistor:

11

DC 4.5 for 1.5V "UM-1" Size x 3

AC 120/220V, 50/60 Hz

Current consumption: No signal 30 mA

92 mm, 8 ohm

Speaker: Dimensions:

 $257mm(W) \times 162mm(H) \times 75mm(D)$

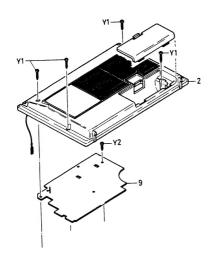
Approx.

Weight Approx. 1.5 kg

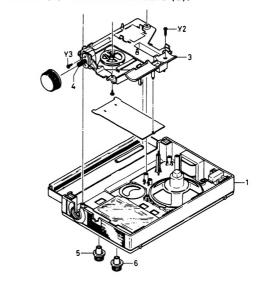
NOTE: Specifications are subject to change without notice.

CABINET & CHASSIS DISSASSEMBLY_

- 1. Remove the four screws Y1 (tapping screw pan head 3 x 20 mm) attaching the BACK LID (2) to the CABINET (1).
- 2. Unplug the antenna cord from the antenna socket (9) on the Printed Çircuit Board to separate the BACK LID (2).
- 3. Detach the VOLUME KNOB (5) and the TONE KNOB (6).

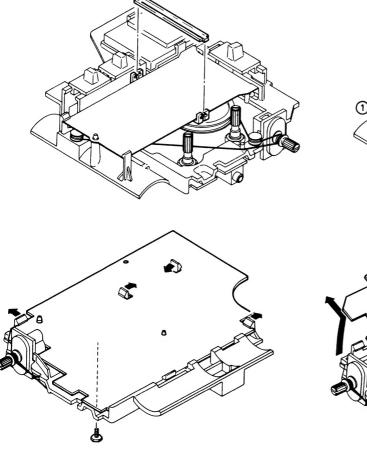


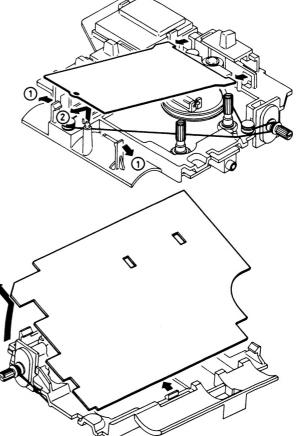
- Remove the two screws Y2 (tapping screw pan head 16 mm) attaching the CHASSIS (3) to the CABINET (1).
 - The CHASSIS with P.C.Board can be separated.
- 5. Detach the POINTER (7) and DIAL SCALE (8).
- Remove the one screw Y3 (tapping screw pan head 3 x 10 mm) for disassembling the TUNIG SHAFT AS-SEMBLY (4) from the CHASSIS (3).



P.C.B. DISASSEMBLY

Before removing the screws from the dial drum, secure it with string so that the dial rope will not come off adversely.





DIAL CORD STRINGING -

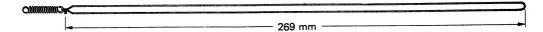
- 1. Prepare dial cord and tension spring as shown bellow.
- 2. First place the drum in such a position as it provides a minimum capacitance for tuning gang.

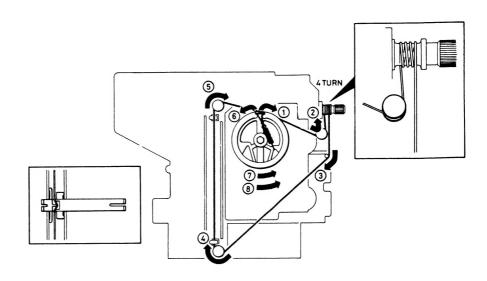
 Hook a free end of the spring to the drum and thread the cord as shown by starting from No. 1 through No. 8.

 Please give if four-turns around a tuning shaft at No. 2.

Pass it through No. 3 & 4, and hold it temporarily at No. 5.

Fit the other end No. 8 of the cord two turns in the arrow direction around the drum and finally.

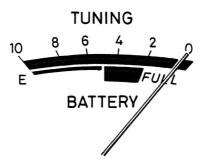




METER ADJUSTMENT SPECIFICATION.

1. Adjustment of battery meter

- 1-1. Set band selector to MW.
- 1-2. Adjust with no signal at "zero" input.
- 1-3. Turn variable resistor R330 (2KB) to adjust needle to full scale (see sketch).



1-5. After the adjustment, make sure the needle registers in the green range at 3.2 V DC.

2. Checking of tuning meter

- 2-1. Set supply voltage to 4.5 V DC.
- 2-2. Set band selector to FM, and tune in to 98 MHz, 40 dB by means of signal generator.
- 2-3. Make sure the maximum meter swing coincides with the maximum output.
- 2-4. If out of agreement, develop the output to maximum and adjust the meter swing to the maximum by turning the IF Transformer T303.
- 2-5. In case an extreme deviation is found at item 2-3, readjust V-curve and S-curve.

GENERAL ALIGNMENT CONDITIONS

- 1. The position of volume control is at maximum position.
- 2. Signal input must be kept as low as possible to avoid overload.
- 3. Use an output meter of the highest possible sensitivity.
- 4. Standard modulation is 400Hz at 30% amplitude (for AM) and 22.5 kHz deviation (for FM).

LW BAND - Band selector switch in LW position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Loop Antenna	470 kHz	Lowest End	Across Speaker	IFT T305, 306, 307	Adjust for Maximum
2	Same	145 kHz	Lowest End	Same	Osc. Coil L112	Same
3	Same	295 kHz	Highest End	Same	Osc. Trim CT 104	Same
4	Same	160 kHz	160 kHz	Same	Ant. Coil L109b	Same
5	Same	280 kHz	280 kHz	Same	Ant. Trim CT102	Same

Repeat steps 2 thru 5 to obtain maximum sensitivity.

MW BAND - Band selector switch in MW position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Same	505 kHz	Lowest End	Same	Osc. Coil L111	Same
2	Same	1650 kHz	Highest End	Same	Osc. Trim VCT4	Same
3	Same	600 kHz	600 kHz	Same	Ant. coil L109a	Same
4	Same	1400 kHz	1400 kHz	Same	Ant. Trim VCT3	Same

Repeat steps 1 thru 4 to obtain maximum sensitivity.

SW BAND - Band selector switch in SW position

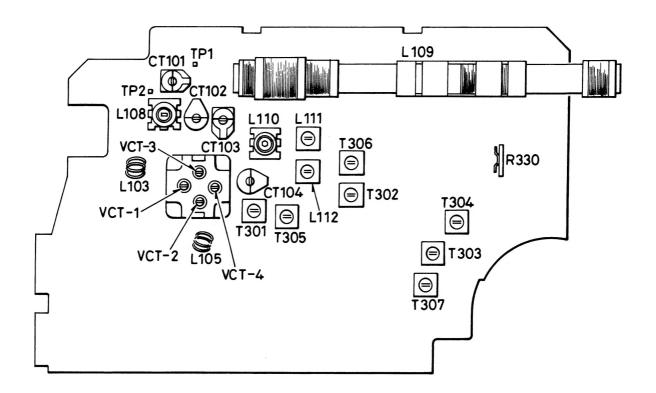
Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Same	5.8 MHz	Lowest End	Same	Osc. Coil L110	Same
2	Same	19 MHz	Lowest End	Same	Osc. Trim CT103	Same
3	Same	6.5 MHz	6.5 MHz	Same	Ant. coil L108	Same
4	Same	17.5 MHz	17.5 MHz	Same	Ant. Trim CT101	Same

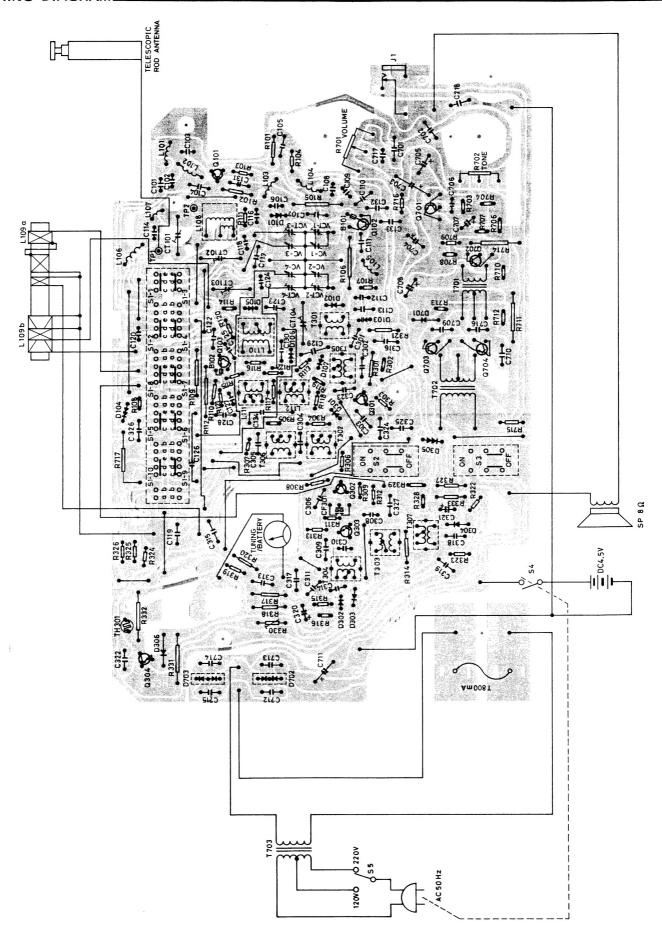
Repeat steps 1 thru 4 to obtain maximum sensitivity.

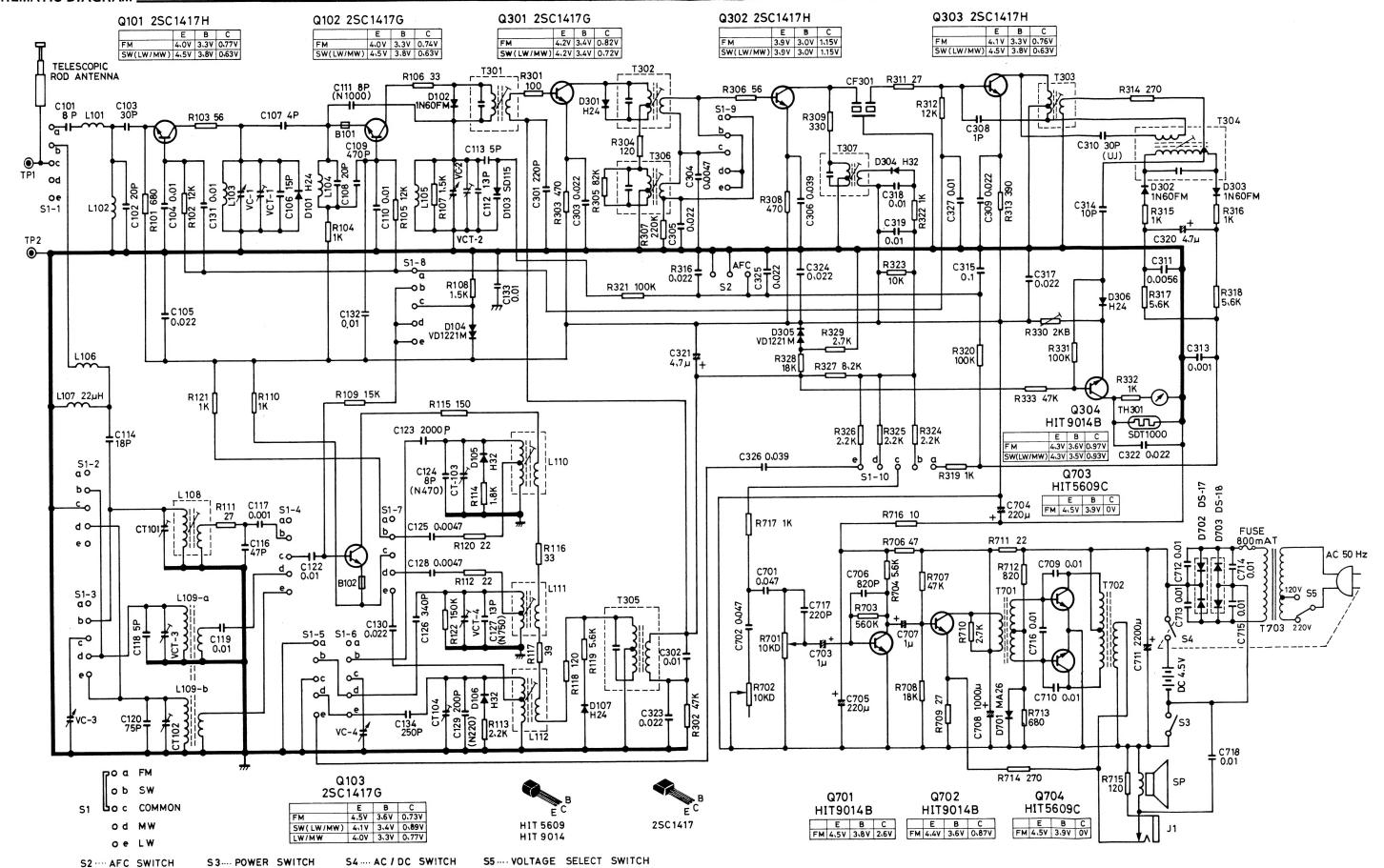
FM BAND — Band selector switch in FM position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Meter or Oscilloscope	Adjust	Remarks
1	Connect Sweep Marker Generator to VCT2, Ground	10.7 MHz	Lowest End	Connect scope input cable thru network to R314, Ground	IFT T301, 302, 303	Adjust for maximum sensitivity with symmetrical curve.
2	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to R319, Ground	IFT T304	Adjust for sym mertrical "S" curve.
3	Connect Signal Generator to TP1, TP2	87.0 MHz	Lowest End	Connect V.T.V,M. across speaker	Osc. coil L109	Adjust for maximum
4	Same	109.0 MHz	Highest End	Same	Osc. Trimmer VCT2	Same
5	Same	90 MHz	90 MHz	Same	RF Coil L103	Same
6	Same	106 MHz	106 MHz	Same	RF Trimmer VCT1	Same

Repeat steps 3 thru 6 to obtain maximum sensitivity.







Ref. No.	Part No.	Description	Q'ty
PACKING	GS PARTS		
	141-6-410T-17009 141-6-132T-92806 141-6-144T-50700 141-6-144T-50800 141-6-231T-25400 141-6-231T-10250	Instruction Manual Individual Carton Pad Pad Polyethylen Bag, Set Polyethylen Bag, Power Cord	1 1 1 1 1
CABINE	T & CHASSIS PARTS		
	141-0-111T-37205 141-0-126T-25909 141-0-128T-13101 141-2-447T-25800	Cabinet Assembly Back Lid Assembly Battery Lid Assembly Cushion, 15 x 15 x 2 mm, for Speaker	1 1 1
	141-2-447T-00800 141-0-171T-14500 141-2-271T-14700 141-2-163T-54900 141-2-163T-55000 141-0-566T-04610 141-0-566T-04610 141-2-164T-23700 141-2-164T-23700 141-2-164T-23701 141-2-513T-04300 141-2-513T-04300 141-2-511T-14500 141-2-340T-00100 123-2-481R-00600 141-2-447T-00800 141-2-447T-00801	Cushion, for Back Lid Handle Assembly Bracket Handle Rotary Knob, Tuning Rotary Knob, Volume & Tone Chassis Assembly Tuning Shaft Assembly Dial Scale Slide Knob, Band Slide Knob, Power Slide Knob, AFC Drum Carriage Pointer Dial Rope, 0.3 ø x 700 mm Spring Coil Cushion, Dial Scale mrg. Cushion, Dial Scale mtg.	21212111111111232
FIXING F	PARTS		
		Tapping Screw (WH), 3 x 8 mm Tapping Screw, 3 x 10 mm Pan Head Tapping Screw, 3 x 8 mm Pan Head Tapping Screw, 3 x 20 mm Pan Head Tapping Screw, 3 x 10 mm Pan Head Screw, 2.6 x 4 mm Hexagon Head Bolt, 2.6 x 6 mm Pan Head Tapping Screw, 3 x 10 mm Washer, 3 x 6.5 x 0.45 mm	2 1 1 4 2 2 1 1
ELECTRI	CAL PARTS		
S4	141-4-233T-34201 141-4-233T-39400 4-300T-09000 4-235T-26971 4-243T-77900 4-151T-28671 4-511T-08094	P.C.B. Assembly, Radio P.C.B. Assembly, Fuse Power Transformer Socket, AC/DC Power Cord Speaker, 92 mm, 8 ohm Meter, TUNING/BATTERY	1 1 1 1 1 1
S5	4-244T-80500 4-231T-37607 123-2-472R-11100 4-235T-34600 141-2-464T-08700	Rod Antenna Slide Switch, Voltage Select Switch Lug Socket, for FM ANT Fixer	1 1 1 1 2
R701, 702 R330	4-222T-68200 4-222T-41073 4-224T-12200	Variable Resistor, 10K ohm, "D" Semi-fixed Variable Resistor Tuning Capacitor	2
	141-2-381T-04200 4-237T-00100 4-234T-01971	Bracket Fuse Terminal Fuse, 800 mAT	2 2 1

Ref. No.	Part No.	Description	Q'ty
ELECTRI	CAL PARTS		
CT101, 103 CT102, 104 J1 S1 S2, 3 B101, 102 T701 T702 Q101, 302, 303 Q102, 103, 301 Q304, 701,		Trimmer Trimmer Socket, Earphone Slide Switch, Band Slide Switch, Power, AFC Terminal Core Input Transformer Output Transformer Transistor, 2SC1417 Transistor, HIT9014	2 2 1 1 2 11 2 1 1 3 3
702 Q703, 704 D101, 107		Transistor, HIT5609 Diode, H32	2 4
301, 306 D102, 302, 303		Diode, 1N60FM	3
D103 D104, 305 D105, 106, 304		Diode, SD115 Varistor, VD1221M Diode, H32	1 2 3
D701 D702 D703 TH301 L101 L102, 104,	4-265R-05010 4-265R-12610	Varistor, MA26 Diode, DS17 Diode, DS18 Thermister, SDT1000 VHF Coil VHF Coil	1 1 1 1 1 3
L103 L105 L107 L108 L109 L110 L111 L112 T301 T302 T303 T304 T305, 306 T307	4-265T-02710 4-265R-12510 4-252T-06600 4-257T-38100 4-257T-37701 4-258T-27410 4-258T-26510 4-256R-20810 4-256R-15810 4-256R-15810 4-256R-00210 4-256R-00210 4-256T-80471 4-256T-80471 4-256T-80473 4-256T-80474	VHF Coil VHF Coil Choke Coil Antenna Coil, SW Antenna Coil, SW Oscillator Coil, SW Oscillator Coil, LW IFT IFT IFT IFT IFT IFT IFT IFT IFT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Α	RESISTORS II resistors are Carbon I nless otherwise noted.		
R112, 120,		10 ohm 22 ohm	3
R111, 311, 709		27 ohm	3
R106, 116 R117 R706 R103,306 R301 R118, 304,		33 ohm 39 ohm 47 ohm 56 ohm 100 ohm 120 ohm	2 1 1 2 1 3
R115 R314, 714 R309 R313 R303, 308 R101, 713 R712 R104, 110, 121, 315, 316, 319,		150 ohm 270 ohm 330 ohm 390 ohm 470 ohm 680 ohm 820 ohm 1K ohm	1 2 1 1 2 2 1 9

Ref. No.	Part No.	Description	Q'ty
D40= 400	RESISTORS		
R107, 108 R114		1.5K ohm 1.8K ohm	2 1
R113, 324, 325, 326,		2.2K ohm	4
R329, 710		2.7K ohm	2
R119, 317, 318, 704		5.6K ohm	4
R327 R323		8.2K ohm 10K ohm	1 1
R102, 105,		12K ohm	3
312 R109		15K ohm	1
R328, 708		18K ohm	2
R302, 333, 707		47K ohm	3
R305 R320, 321,		82K ohm 100K ohm	1 3
331			
R122 R307		150K ohm 220K ohm	1
R703		560K ohm	1
C308	CAPACITORS	Ceramic 1nF +0 25nF 50V	1
C107		Ceramic, 1pF, ±0.25pF, 50V Ceramic, 4pF, ±0.25pF, 50V	1
C113, 118 C101, 111		Ceramic, 5pF, ±0.25pF, 50V Ceramic, 8pF, ±0.5pF, 50V	2
C124		Ceramic, 8pF, ±0.5pF, 50V	1
C314		(N470) Ceramic, 10pF, ±0.5pF, 50V	1
C112, 127 C106		Ceramic, 13pF, ±5%, 50V Ceramic, 15pF, ±5%, 50V	2
C114		Ceramic, 18pF, ±5%, 50V	1
C102, 108 C103		Ceramic, 20pF, ±5%, 50V Ceramic, 30pF, ±5%, 50V	2 1
C310		Ceramic, 30pF, ±5%, 50V	1
C116 C120		Ceramic, 47pF, ±5%, 50V Ceramic, 75pF, ±5%, 50V	1
C129		Ceramic, 200pF, ±5%, 50V	i
C301, 717		(N220) Ceramic, 220pF, ±10%, 50V	2
C109		Ceramic, 470pF, ±10%, 50V Ceramic, 820pF, ±10%, 50B	1
C706 C117, 313		Ceramic, 0.001µF, ±10%, 50V	1 2
C304		Ceramic, 0.0047#F, ±10%, 50V	1
C311		Ceramic, 0.0056µF, ±10%, 50V	′ 1
C110, 119, 122, 131,			
132, 133,		Ceramic, 0.01µF, +80 —20%,	10
327, 712, 713, 714,		50V	12
715, 718 C105, 305,		Ceramic, 0.022µF, +80 —20%,	5
309, 316,		50V	J
322 C134		Styrol, 250pF, ±5%, 50V	1
C126		Styrol, 340pF, ±5%, 50V	1
C123 C104, 302,		Styrol, 0.002µF, ±5%, 50V Semi conductive, 0.01µF,	1 7
318, 319, 709, 710,		±20%, 25V	
716			_
C303, 317, 323, 324,		Semi conductive, 0.022\mu F, ±20%, 25V	5
325			2
C306, 326		Semi conductive, 0.039 μ F, ±20%, 25V	2
C701, 702		Semi conductive, 0.047µF, ±20%, 25V	2
C315		Semi conductive, 0.1\(^{\mu}\mathbf{F}\), \(\pm20\)%	. 1
C125, 128		12V Mylar, 0.0047#F, ±20%, 50V	2
C130		Mylar, 0.0022#F, ±20%, 50V	1
C703, 707 C320, 321		Electrolytic, 1 pF, 25V Electrolytic, 4.7 pF, 25V	2 2 2
C704, 705		Electrolytic, 220µF, 10V	
C708		Electrolytic, 1000µF, 10V Electrolytic, 2200µF, 10V	1

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